## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/573,909
Source:	PCT_
Date Processed by STIC:	94/07/2006

## ENTERED



PET

RAW SEQUENCE LISTING DATE: 04/07/2006
PATENT APPLICATION: US/10/573,909 TIME: 14:56:36

Input Set : A:\9237.10WO.ST25.txt

Output Set: N:\CRF4\04072006\J573909.raw

```
3 <110> APPLICANT: University of Texas Health Science Center at San Antonio
             Baseman, Joel
             Kannan, Thirumalai
      7 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MYCOPLASMA PNEUMONIAE EXOTOXINS
      9 <130> FILE REFERENCE: 9237.10WO
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/573,909
C--> 11 <141> CURRENT FILING DATE: 2006-03-29
                                                                   (Rg/6)
     11 <150> PRIOR APPLICATION NUMBER: US 60/508,607
     12 <151> PRIOR FILING DATE: 2003-10-03
     14 <160> NUMBER OF SEO ID NOS · 76
     16 <170> SOFTWARE: Patentin version 3.2
     18 <210> SEQ ID NO: 1
     19 <211> LENGTH: 591
     20 <212> TYPE: PRT
     21 <213> ORGANISM: Mycoplasma pneumoniae
     23 <400> SEQUENCE: 1
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     29 Glu Glu Ile Phe Glu His Gly Phe Ser Thr Leu Gly Asp Val Arg Asn
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                                        25
     33 Phe Phe Glu His Ile Leu Ser Thr Asn Phe Gly Arg Ser Tyr Phe Ile
                                    40
     37 Ser Thr Ser Glu Thr Pro Thr Ala Ala Ile Arg Phe Phe Gly Ser Trp
     41 Leu Arg Glu Tyr Val Pro Glu His Pro Arg Arg Ala Tyr Leu Tyr Glu
     45 Ile Arg Ala Asp Gln His Phe Tyr Asn Ala Arg Ala Thr Gly Glu Asn
     49 Leu Leu Asp Leu Met Arg Gln Arg Gln Val Val Phe Asp Ser Gly Asp
                   100
                                        105
     53 Arg Glu Met Ala Gln Met Gly Ile Arg Ala Leu Arg Thr Ser Phe Ala
                                   120
     57 Tyr Gln Arg Glu Trp Phe Thr Asp Gly Pro Ile Ala Ala Asn Val
                                135
     61 Arg Ser Ala Trp Leu Val Asp Ala Val Pro Val Glu Pro Gly His Ala
                           150
                                                155
     65 His His Pro Ala Gly Arg Val Val Glu Thr Thr Arg Ile Asn Glu Pro
     69 Glu Met His Asn Pro His Tyr Gln Glu Leu Gln Thr Gln Ala Asn Asp
                    180
                                        185
     73 Gln Pro Trp Leu Pro Thr Pro Gly Ile Ala Thr Pro Val His Leu Ser
                                    200
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77 Ile Pro Gln Ala Ala Ser Val Ala Asp Val Ser Glu Gly Thr Ser Ala

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78 210		215		220		
81 Ser Leu Ser Ph	ne Ala Cys	Pro Asp	Trp Ser	Pro Pro	Ser Ser	Asn Gly
82 225	230			235		240
85 Glu Asn Pro Le	eu Asp Lys	Cys Ile	Ala Glu	Lys Ile	Asp Asr	ı Tyr Asn
86	245		250	)		255
89 Leu Gln Ser Le	eu Pro Gln	Tyr Ala	Ser Ser	Val Lys	Glu Leu	ı Glu Asp
90 26	50		265		270	)
93 Thr Pro Val Ty	r Leu Arg	Gly Ile	Lys Thr	Gln Lys	Thr Phe	Met Leu
94 275		280			285	
97 Gln Ala Asp Pi	co Gln Asn	Asn Asn	Val Phe	Leu Val	Glu Val	Asn Pro
98 290		295		300		
101 Lys Gln Lys S	Ser Ser Ph	e Pro Gli	n Thr Il	e Phe Ph	e Trp As	sp Val Tyr
102 305	31			315		320
105 Gln Arg Ile (		s Asp Lei			n Ile Se	
106	325		33			335
109 Leu Thr Ala I		r Gln Ty		y Gln Le	_	
	340		345		35	
113 Ser Val Ser A	Ala Val As			n Lys Tr		et Thr Pro
114 355	× 1 =	360			365	
117 Gin Asp Ile A	arg ire in		e Arg va			en ren era
118 370	Nam Clas In	375	a Nan Mb	38	-	ler Com Clm
121 Gln Thr Glu <i>I</i> 122 385	asn Gry Le 39	_	p Asn II.	и пув se 395	r Gry G	ty ser Gin 400
125 His Asp Leu '			ı Tıza No		o Sor No	
125 HIS ASP Leu .	405	s FIO Let	и шуз Аз 41		O SEL A	415
129 Glu Leu Gln		l Asp Gli			e Ala Gi	
	120	I ASP GI	425	11 1111 111	5 A14 43	
133 Thr Met Arg		r Thr Ph		al Asp Va		
134 435	50	440			445	Ju 01/ 11/
137 Tyr Trp Arg (	3lv Tvr Tv			ln Leu Se		rp Ser Tvr
138 450		455		46		<u>.</u>
141 Gln Met Lys	Thr Pro As	p Gly Gl	n Ile Ph	ne Tyr As	p Leu Ly	s Thr Ser
142 465	47			475	-	480
145 Lys Ile Phe	Phe Val Gl	n Asp Ası	n Gln As	sn Val Ph	e Phe Le	eu His Asn
146	485		49	90		495
149 Lys Leu Asn 1	Lys Gln Th	r Gly Ty	r Ser Tr	p Asp Tr	p Val G	lu Trp Leu
150	500		505		50	10
153 Lys His Asp I	Met Asn Gl	u Asp Lys	s Asp Gl	lu Asn Ph	e Lys T	rp Tyr Phe
154 515		520			525	
157 Ser Arg Asp A	Asp Leu Th	r Ile Pro	o Ser Va	al Glu Gl	y Leu As	sn Phe Arg
158 530		535		54		
161 His Ile Arg	_	_	n Gln Gl	_	s Val I	
162 545	55			555		560
165 Gly Ser Arg		y Trp Ty:			p Lys Va	
166	565		57			575
169 Asn Val Glu		e Leu Val	_	sp Gly Ph		_
	580		585		59	90
173 <210> SEQ ID						
174 <211> LENGTH	: 231					

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PATENT APPLICATION: US/10/573,909 TIME: 14:56:36

Input Set : A:\9237.10WO.ST25.txt

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176	<213	3> OI	RGAN	ISM:	Mycoplasma pneumoniae												
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181	1				5					10					15		
184	Glu	Glu	Ile	Phe	Glu	His	Gly	Phe	Ser	Thr	Leu	Gly	Asp	Val	Arg	Asn	
185				20					25					30			
188	Phe	Phe	Glu	His	Ile	Pro	Ser	Thr	Asn	Phe	Gly	Arg	Ser	Tyr	Phe	Ile	
189			35					40					45				
192	Ser	Thr	Ser	Glu	Thr	Pro	Thr	Ala	Ala	Ile	Arg	Phe	Phe	Gly	Ser	Trp	
193		50					55					60					
196	Leu	Arg	Glu	Tyr	Val	Pro	Glu	His	Pro	Arg	Arg	Ala	Tyr	Leu	Tyr	Glu	
197	65					70					75					80	
200	Ile	Arg	Ala	Asp	Gln	His	Phe	Tyr	Asn	Ala	Arg	Ala	Thr	Gly	Glu	Asn	
201					85					90					95		
204	Leu	Leu	Asp	Leu	Met	Arg	Gln	Arg	Gln	۷al	Val	Phe	Asp	Ser	Gly	Asp	
205				100					105					110			
208	Arg	Glu		Ala	Gln	Met	Gly	Ile	Arg	Ala	Leu	Arg	Thr	Ser	Phe	Ala	
209			115					120					125				
	ī'nī		Αιĝ	Giu	Trp	rite		Asp	GLy	Pro	Ile		Ala	Ala	Asn	, val	د ب <sup>ر</sup> د
213	_	130	_ •	_ ^	_		135			_		140					
	-	Ser	Ala	Trp	Leu		Asp	Ala	Val	Pro		GIu	Pro	Gly	His		
	145	***	D	77-	<b>~1</b>	150	*** 7	**- 3	<b>~1</b>	m1	155		-1-		<b>~1</b>	160	
	HIS	HIS	Pro	Ата	-	Arg	vaı	vai	GIU		Thr	Arg	ше	Asn	Glu	Pro	
221	<b>~1</b>	Mob	TT i a	7. ~~	165	TT d a	TT	<b>~1</b> ~	<b>~1</b>	170	<b>01</b> -	mb	<b>01</b> m	77.	175	7	
	GIU	Met	птъ	180	PIO	nis	TÀT	GIII		ьeu	GIII	THE	GIII		Asn	Asp	
225	Cln	Dro	Trn		Dro	mh~	Dro	C111	185	- ומ	Thr	Dro	17-3	190	Leu	Cor	
229		FIO	195	Бец	PIO	1111	FIU	200	116	Ата	1111	PIO	205	птэ	пец	Ser	
		Pro		Δla	Δla	Ser	Val		Asn	Val	Ser	Glu		Thr	Ser	Δla	
233		210	<b></b>			-	215				-	220	Q-1				
	Ser		Ser	Phe	Ala	Cvs		Asp	Trp	Ser	Pro		Ser	Ser	Asn	Glv	
	225					230		-	•		235					240	
240	Glu	Asn	Pro	Leu	Asp	Lys	Cys	Ile	Ala	Glu	Lys	Ile	Asp	Asn	Tyr	Asn	
241					245					250	_		_		255		
244	Leu	Gln	Ser	Leu	Pro	Gln	Tyr	Ala	Ser	Ser	Val	Lys	Glu	Leu	Glu	Asp	
245				260					265					270			
248	Thr	Pro	Val	Tyr	Leu	Arg	Gly	Ile	Lys	Thr	Gln	Lys	Thr	Phe	Met	Leu	
249			275					280					285				
252	Gln	Ala	Asp	Pro	Gln	Asn	Asn	Asn	Val	Phe	Leu	Val	Glu	Val	Asn	Pro	
253		290					295					300					
256	Lys	Gln	Lys	Ser	Pro	Phe	Pro	Gln	Thr	Ile	Phe	Phe	Trp	Asp	Val	Tyr	
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	Gln	Arg	Ile	Cys		Lys	Asp	Leu	Thr		Ala	Gln	Ile	Ser	Leu	Ser	
261		_	_	_	325					330					335		
	Leu	Thr	Ala		Thr	Thr	Gln	Tyr		Gly	Gln	Leu	Lys		His	Leu	
265	_		_	340	<b>_</b>	_			345		_	_	_	350		_	
	Ser	Val		Ala	Val	Asn	Ala		Asn	Gln	Lys	Trp	_	Met	Thr	Pro	
269			355					360					365				

**RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/573,909**DATE: 04/07/2006

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272 Gln Asp Ser Ala Ile Thr Gln Phe Arg Val Ser Ser Glu Leu Leu Gly 375 276 Gln Thr Glu Asn Gly Leu Ser Trp Asn Thr Lys Ser Gly Gly Ser Gln 390 395 280 His Asp Leu Tyr Val Cys Pro Leu Lys Asn Pro Pro Ser Asp Leu Glu 405 284 Glu Leu Gln Ile Ile Val Asp Glu Cys Thr Thr His Ala Gln Phe Val 285 425 288 Thr Met Arg Ala Ala Ser Thr Phe Phe Val Asp Val Gln Leu Gly Trp 435 440 292 Tyr Trp Arg Gly Tyr Tyr Tyr Thr Pro Gln Leu Ser Gly Trp Ser Tyr 455 296 Gln Met Lys Thr Pro Asp Gly Gln Ile Phe Tyr Asp Leu Lys Thr Ser 470 475 300 Lys Ile Phe Phe Val Gln Asp Asn Gln Asn Val Phe Phe Leu His Asn 485 490 304 Lys Leu Asn Lys Gln Thr Gly Tyr Ser Trp Asp Trp Val Glu Trp Leu 500 505 308 Lys His Asp Met Asn Glu Asp Lys Asp Glu Asn Phe Lys Trp Tyr Phe ں نے د 312 Ser Arg Asp Asp Leu Thr Ile Pro Ser Val Glu Gly Leu Asn Phe Arg 535 316 His Ile Arg Cys Tyr Ala Asp Asn Gln Gln Leu Lys Val Ile Ile Ser 317 545 550 320 Gly Ser Arg Trp Gly Gly Trp Tyr Ser Thr Tyr Asp Lys Val Glu Ser 565 570 324 Asn Val Glu Asp Lys Ile Leu Val Lys Asp Gly Phe Asp Arg Phe 580 585 328 <210> SEQ ID NO: 3 329 <211> LENGTH: 591 330 <212> TYPE: PRT 331 <213> ORGANISM: Mycoplasma pneumoniae 333 <400> SEQUENCE: 3 335 Met Pro Asn Pro Val Arg Phe Val Tyr Arg Val Asp Leu Arg Ser Pro 339 Glu Glu Ile Phe Glu His Gly Phe Ser Thr Leu Gly Asp Val Arg Asn 343 Phe Phe Glu His Ile Leu Ser Thr Asn Phe Gly Arg Ser Tyr Phe Ile 347 Ser Thr Ser Glu Thr Pro Thr Ala Ala Ile Arg Phe Phe Gly Ser Trp 55 351 Leu Arg Glu Tyr Val Pro Glu His Pro Arg Arg Ala Tyr Leu Tyr Glu 70 355 Ile Arg Ala Asp Gln His Phe Tyr Asn Ala Arg Ala Thr Gly Glu Asn 85 359 Leu Leu Asp Leu Met Arg Gln Arg Gln Val Val Phe Asp Ser Gly Asp 100 105 363 Arg Glu Met Ala Gln Met Gly Ile Arg Ala Leu Arg Thr Ser Phe Ala 364

RAW SEQUENCE LISTING DATE: 04/07/2006
PATENT APPLICATION: US/10/573,909 TIME: 14:56:36

Input Set: A:\9237.10WO.ST25.txt
Output Set: N:\CRF4\04072006\J573909.raw

367 Tyr Gln Arg Glu Trp Phe Thr Asp Gly Pro Ile Ala Ala Asn Val 130 135 371 Arg Ser Ala Trp Leu Val Asp Ala Val Pro Val Glu Pro Gly His Ala 150 155 375 His His Pro Ala Gly Arg Val Val Glu Thr Thr Arg Ile Asn Glu Pro 165 170 379 Glu Met His Asn Pro His Tyr Gln Glu Leu Gln Thr Gln Ala Asn Asp 383 Gln Pro Trp Leu Pro Thr Pro Gly Ile Ala Thr Pro Val His Leu Ser 195 200 387 Ile Pro Gln Ala Ala Ser Val Ala Asp Val Ser Glu Gly Thr Ser Ala 215 391 Ser Leu Ser Phe Ala Cys Pro Asp Trp Ser Pro Pro Ser Ser Asn Gly 230 235 395 Glu Asn Pro Leu Asp Lys Cys Ile Ala Glu Lys Ile Asp Asn Tyr Asn 245 250 399 Leu Gln Ser Leu Pro Gln Tyr Ala Ser Ser Val Lys Glu Leu Glu Asp 260 265 403 Thr Pro Val Tyr Len Arg Gly Tle Lys Thr Gln Lys Thr Phe Met Leu 275 280 407 Gln Ala Asp Pro Gln Asn Asn Val Phe Leu Val Glu Val Asn Pro 290 295 411 Lys Gln Lys Ser Ser Phe Pro Gln Thr Ile Phe Phe Trp Asp Val Tyr 310 315 415 Gln Arg Ile Cys Leu Lys Asp Leu Thr Gly Ala Gln Ile Ser Leu Ser 325 330 419 Leu Thr Ala Phe Thr Thr Gln Tyr Ala Gly Gln Leu Lys Val His Leu 340 345 423 Ser Val Ser Ala Val Asn Ala Val Asn Gln Lys Trp Lys Met Thr Pro 355 360 427 Gln Asp Ser Ala Ile Thr Gln Phe Arg Val Ser Ser Glu Leu Leu Gly 370 375 431 Gln Thr Glu Asn Gly Leu Phe Trp Asn Thr Lys Ser Gly Gly Ser Gln 390 395 435 His Asp Leu Tyr Val Cys Pro Leu Lys Asn Pro Pro Ser Asp Leu Glu 405 410 439 Glu Leu Gln Ile Ile Val Asp Glu Cys Thr Thr His Ala Gln Phe Val 425 443 Thr Met Arg Ala Ala Ser Thr Phe Phe Val Asp Val Gln Leu Gly Trp 435 440 447 Tyr Trp Arg Gly Tyr Tyr Tyr Thr Pro Gln Leu Ser Gly Trp Ser Tyr 455 451 Gln Met Lys Thr Pro Asp Gly Gln Ile Phe Tyr Asp Leu Lys Thr Ser 470 475 455 Lys Ile Phe Phe Val Gln Asp Asn Gln Asn Val Phe Phe Leu His Asn 485 490 459 Lys Leu Asn Lys Gln Thr Gly Tyr Ser Trp Asp Trp Val Glu Trp Leu 500 505 463 Lys His Asp Met Asn Glu Asp Lys Asp Glu Asn Phe Lys Trp Tyr Phe

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/07/2006
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## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:76; N Pos. 6,12,15,18,24,30,33,39,42,45,48,69,75,78,81,84,90,93,114
Seq#:76; N Pos. 117,120,129,132,135,147,150,153,159,162,165,168,171,177,186
Seq#:76; N Pos. 189,195,198,207,210,219,222,225,228,234,246,249,270,273,276
Seq#:76; N Pos. 279,282,291,294,300,306,312,318,321,330,333,339,348,357,363
Seq#:76; N Pos. 366,369,372,375,378,384,393,405,411,414,420,423,426,432,435
Seq#:76; N Pos. 438,441,447,450,456,459,462,465,471,474,480,489,492,495,498
Seq#:76; N Pos. 501,504,510,513,516,528,543,558,564,570,582,588,591,594,597
Seq#:76; N Pos. 600,606,609,612,615,621,624,630,636,639,642,645,648,654,657
Seq#:76; N Pos. 663,666,669,672,675,678,681,687,693,702,705,708,711,714,720
Seq#:76; N Pos. 729,732,735,747,771,777,780,783,792,795,798,801,810,819,822
Seq#:76; N Pos. 825,831,834,837,846,855,864,870,876,891,897,900,906,912,924
Seq#:76; N Pos. 927,933,939,957,966,975,984,987,990,993,1002,1005,1008,1011
Seq#:76; N Pos. 1014,1017,1023,1026,1035,1038,1044,1050,1056,1059,1062,1065
Seq#:76; N Pos. 1068,1071,1077,1080.1101,1104,1113,1116,1122,1131,1134,1137
Seq#:76, N Pos. 1140,1146,1149,1152,1158,1167,1170,1173,1176,1182,1188,1191 🦠
Seq#:76; N Pos. 1194,1197,1209,1215,1221,1224,1233,1236,1239,1245,1254,1266
Seq#:76; N Pos. 1278,1281,1287,1296,1299,1305,1308,1311,1314,1317,1326,1332
Seq#:76; N Pos. 1338,1341,1353,1356,1368,1371,1377,1380,1383,1389,1404,1407
Seq#:76; N Pos. 1413,1431,1437,1440,1455,1473,1482,1494,1506,1509,1515,1527
Seq#:76; N Pos. 1536,1587,1590,1599,1602,1608,1611,1614,1620,1623,1632,1641
Seq#:76; N Pos. 1650,1665,1671,1680,1683,1686,1689,1695,1698,1707,1710,1722
Seq#:76; N Pos. 1728,1734,1749,1752,1761,1770
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## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:6,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,30,31,33,35 Seq#:36,38,40,41,43,45,46,48,50,52,54,55,57,59,60,62,64,65,66,67,68,72,73,74 Seq#:75,76 **VERIFICATION SUMMARY**PATENT APPLICATION: **US/10/573,909**DATE: 04/07/2006

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:3786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0 L:3788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:60 L:3790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:120 L:3792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:180 L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:240 L:3796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:300 L:3798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:360 L:3800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:420 L:3802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:480 L:3804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:540 L:3806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:600 L:3808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:660 L:3810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:720 L:3812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:780 L:3814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:840 L:3816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:900 .L:3319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:960 E.3320 M:341 A: (46) nº or "Xaa" used, for SEQ ID#:76 after pos.:2020 L:3822 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1080 L:3824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1140 L:3826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1200 L:3828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1260 L:3830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1320 L:3832 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1380 L:3834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1440 L:3836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1500 L:3838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1560 L:3840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1620 L:3842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1680 L:3844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:1740